

Fig. 1



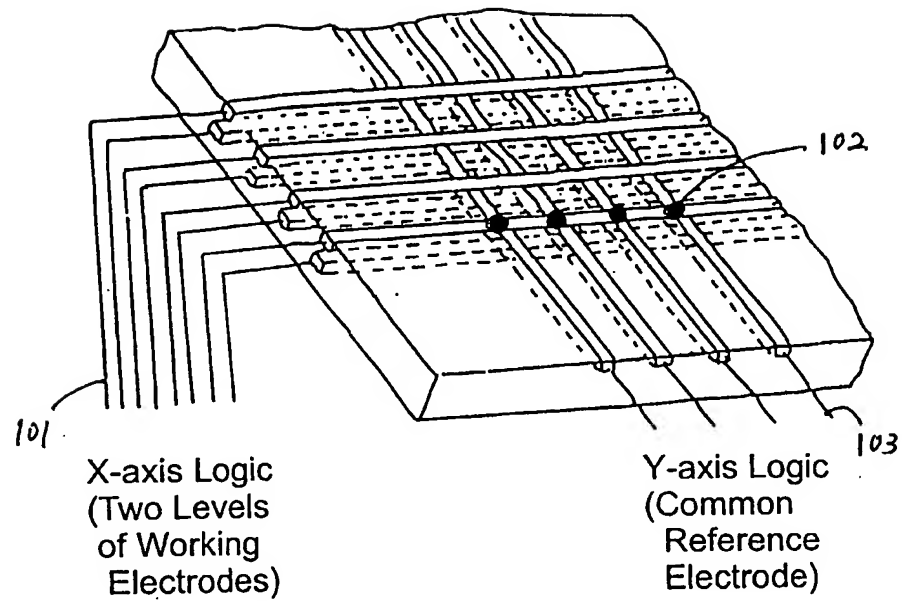
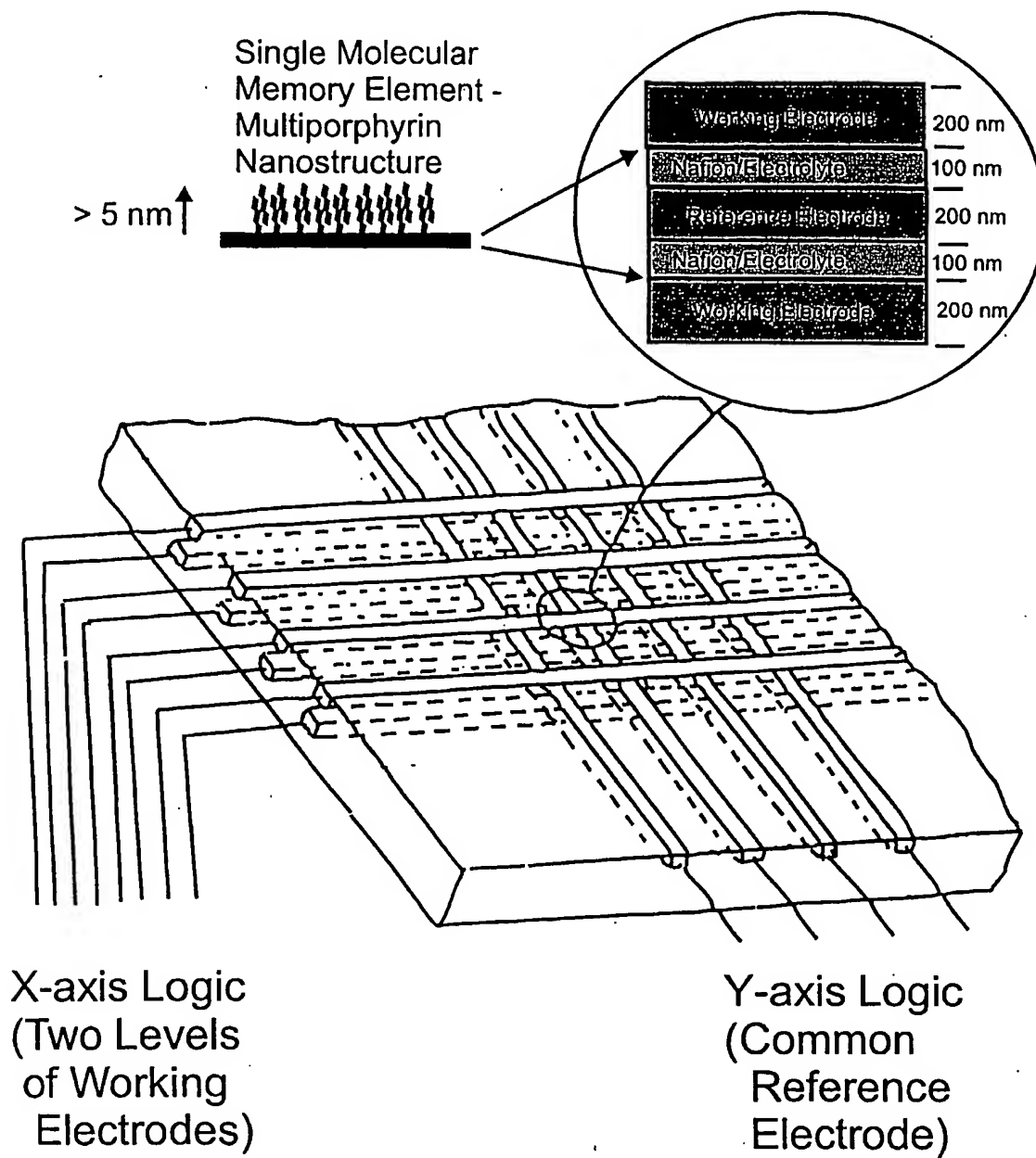
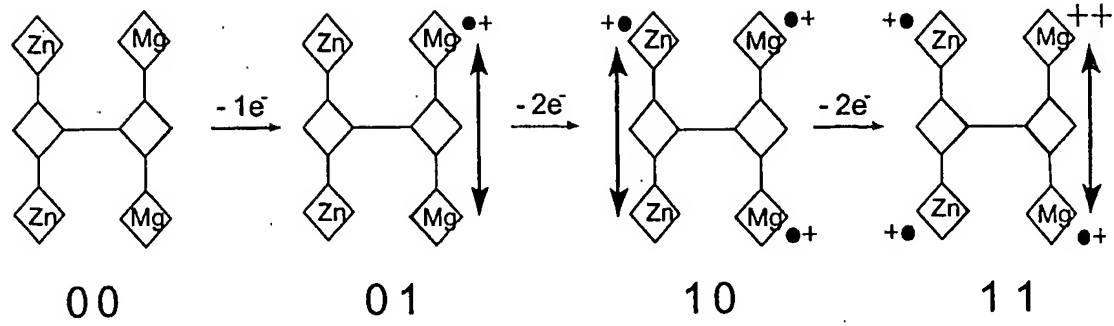


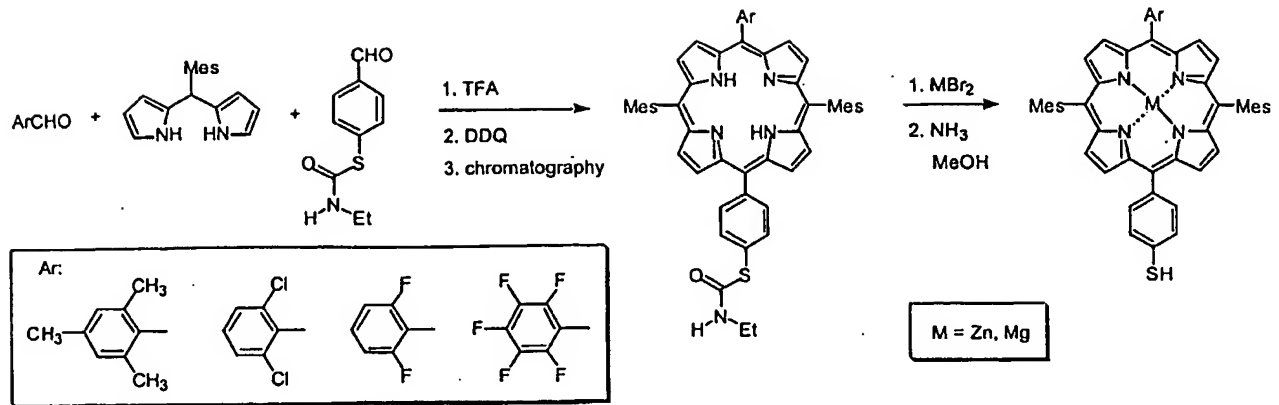
Fig. 3

**Fig. 4**

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**Fig. 5**

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**Fig. 6**

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PCT/US00/17847

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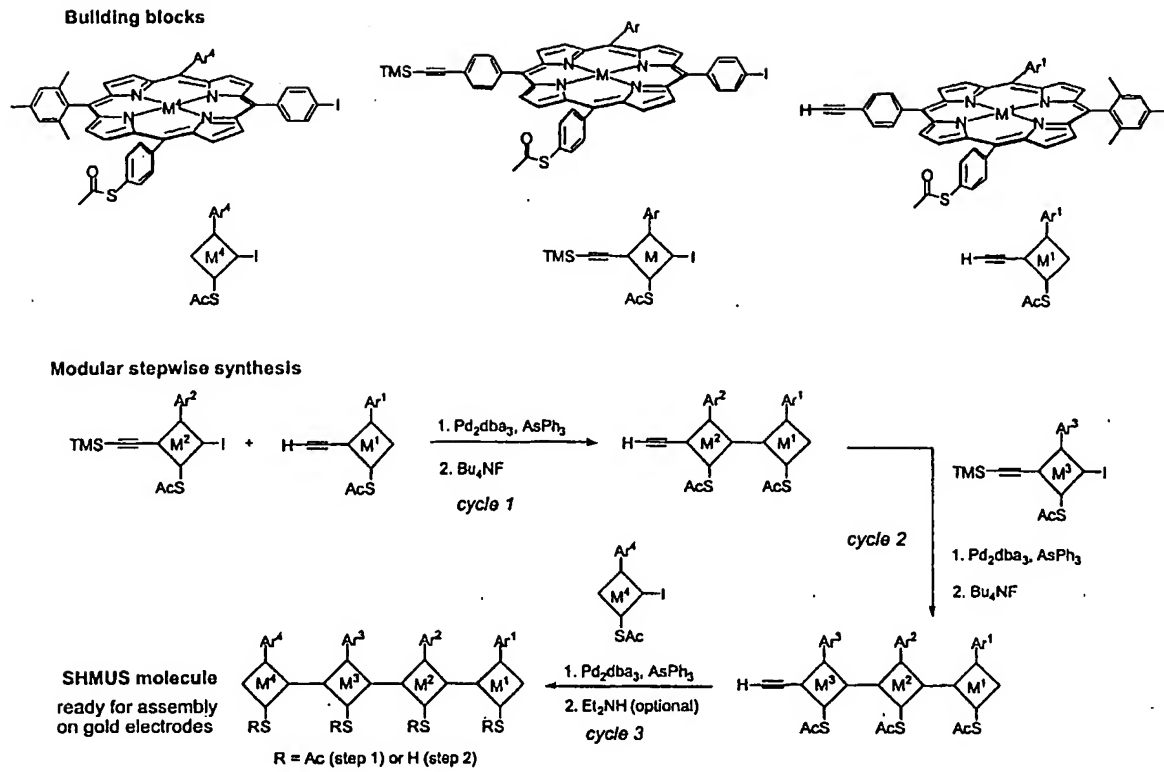
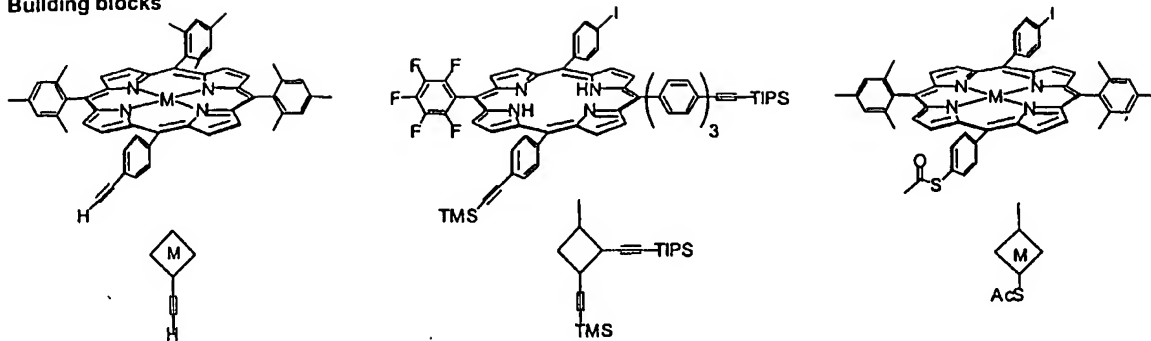


Fig. 7

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Building blocks



Modular stepwise synthesis

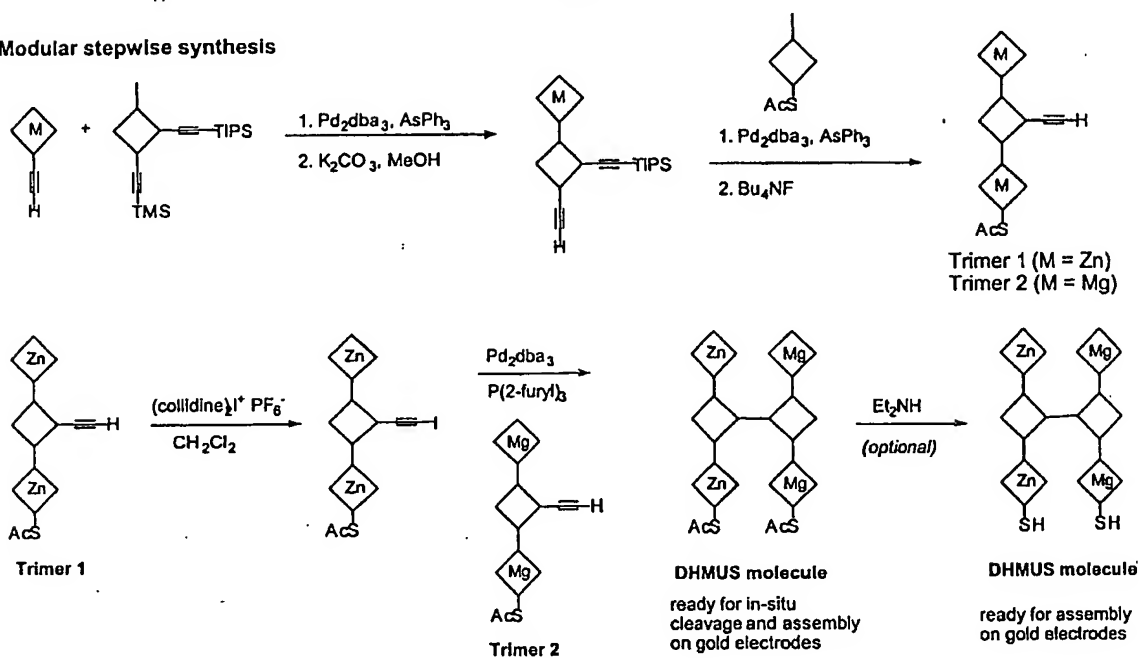
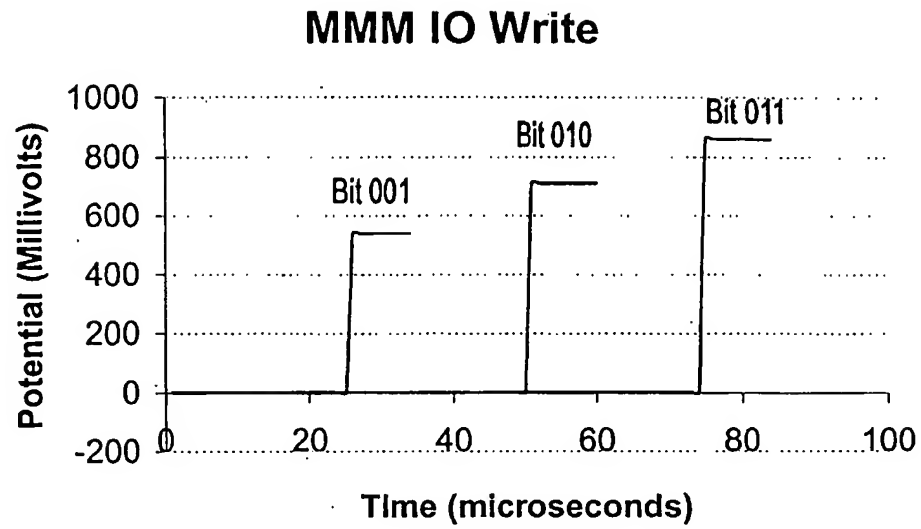
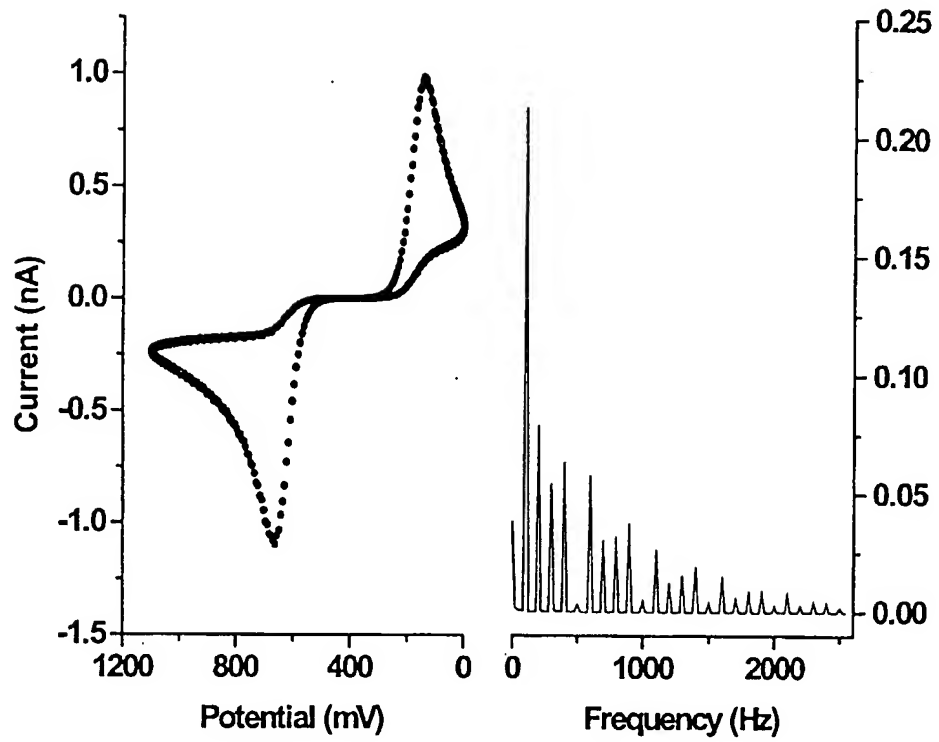
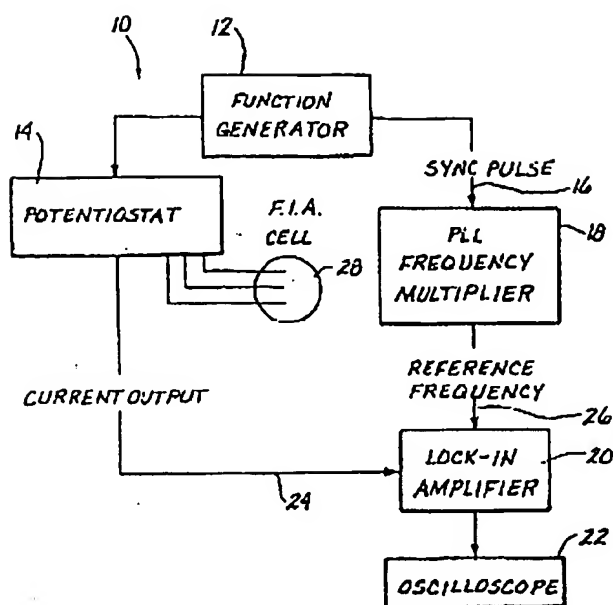


Fig. 8

**Fig. 9**

**Fig. 10**

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**Fig. 11**

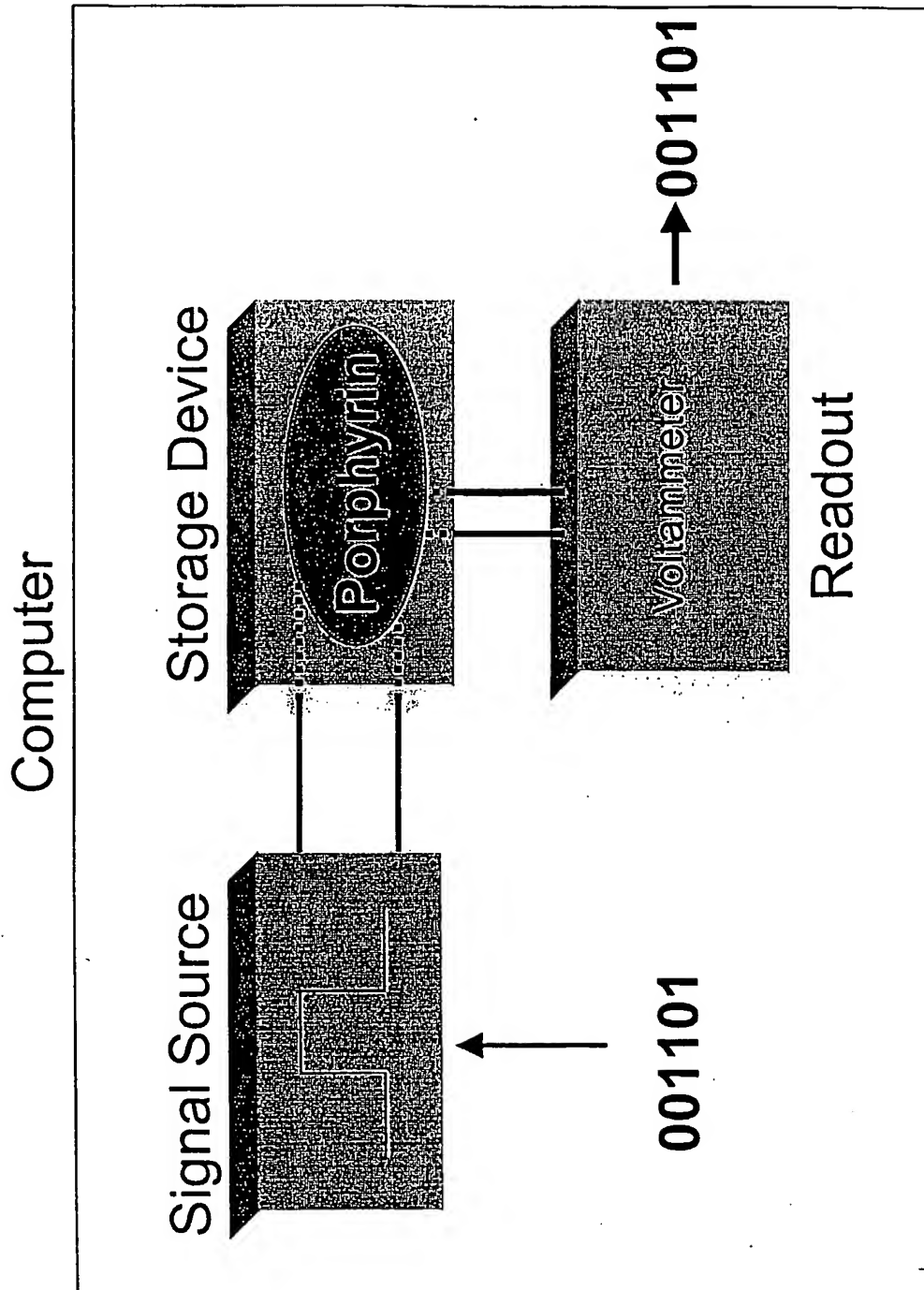


Fig. 12

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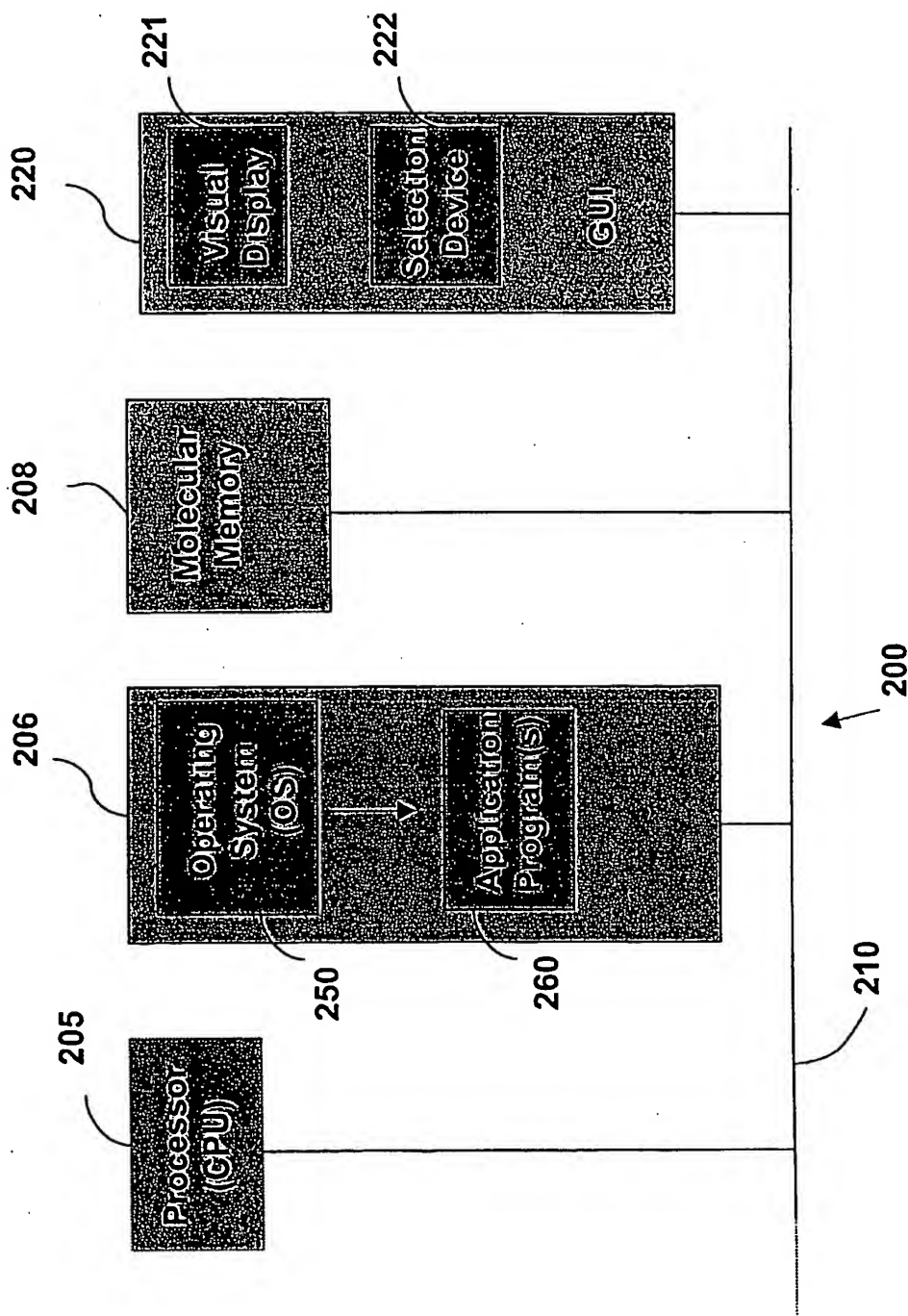
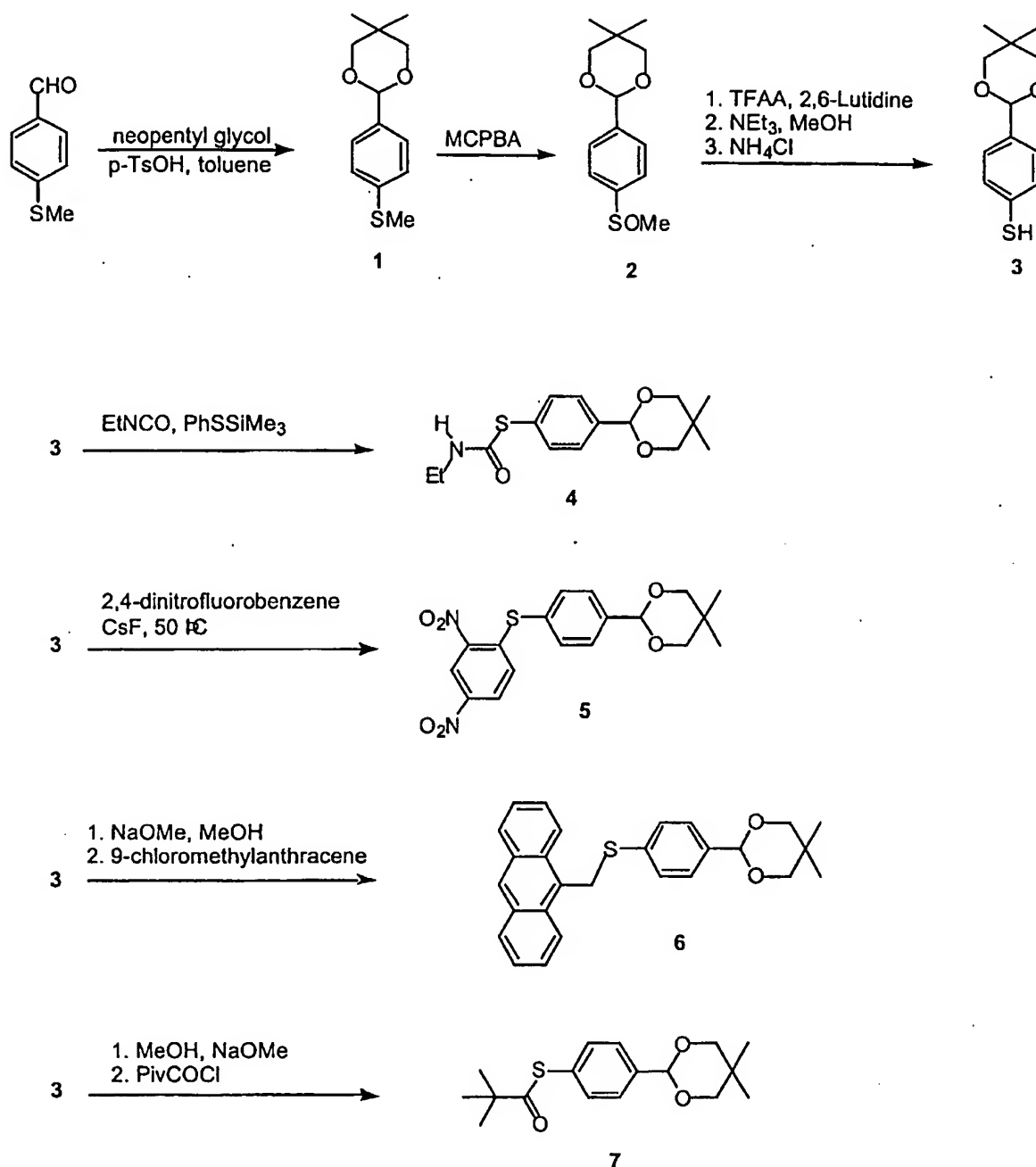


Fig. 13

Scheme 1.

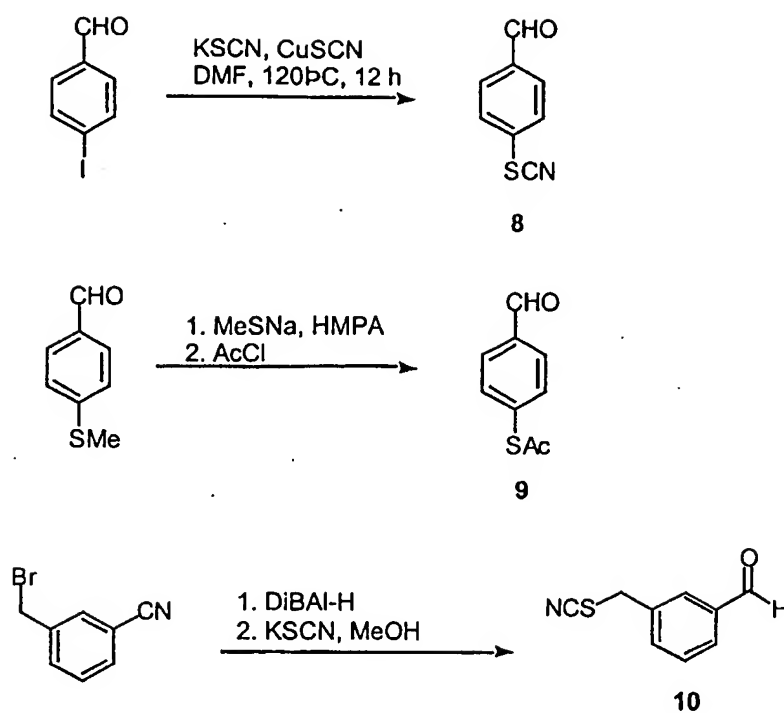
**Fig. 14**

WO 01/03126

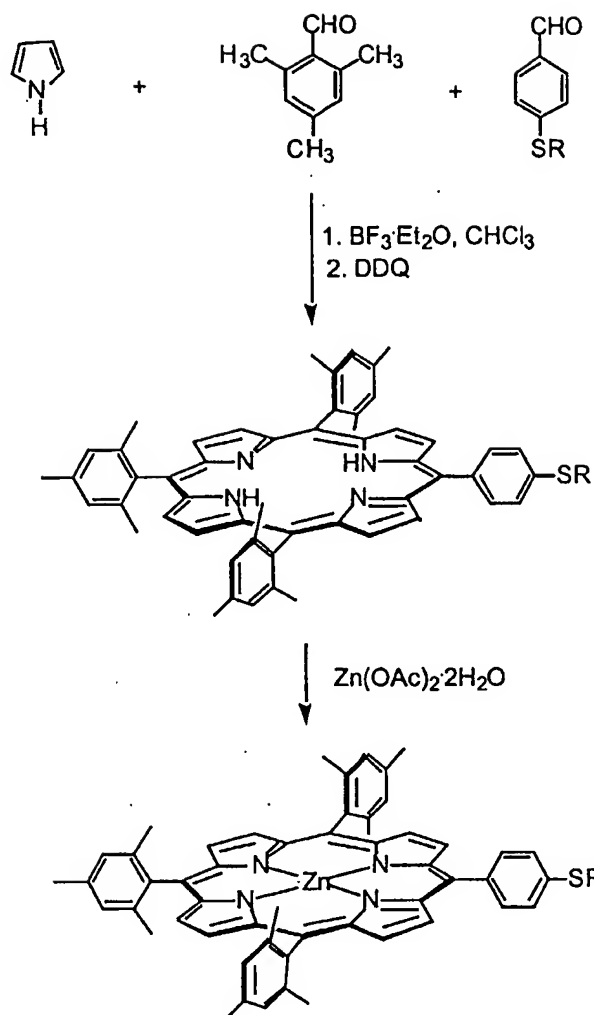
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Scheme 2.

**Fig. 15**

Scheme 3.



11. R = CONHEt
 12. R = 2,4-dinitrophenyl
 13. R = 9-anthrylmethyl
 14. R = Piv
 R = Me
 9. R = Ac

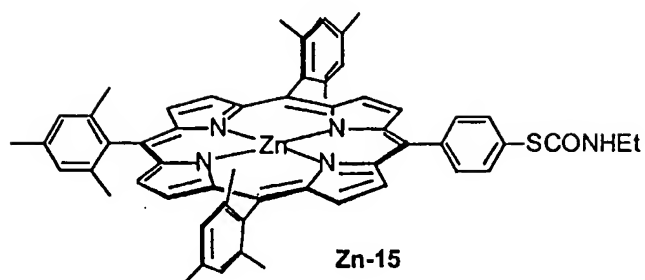
15. R = CONHEt
 16. R = 2,4-dinitrophenyl
 17. R = 9-anthrylmethyl
 18. R = Piv
 19. R = Me
 20. R = Ac

Zn-15. R = CONHEt
 Zn-16. R = 2,4-dinitrophenyl
 Zn-17. R = 9-anthrylmethyl
 Zn-18. R = Piv
 Zn-19. R = Me
 Zn-20. R = Ac

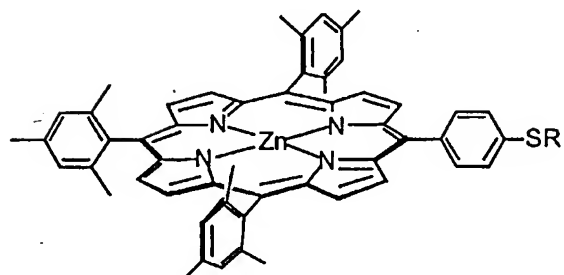
Fig. 16

Scheme 4.

10/019377

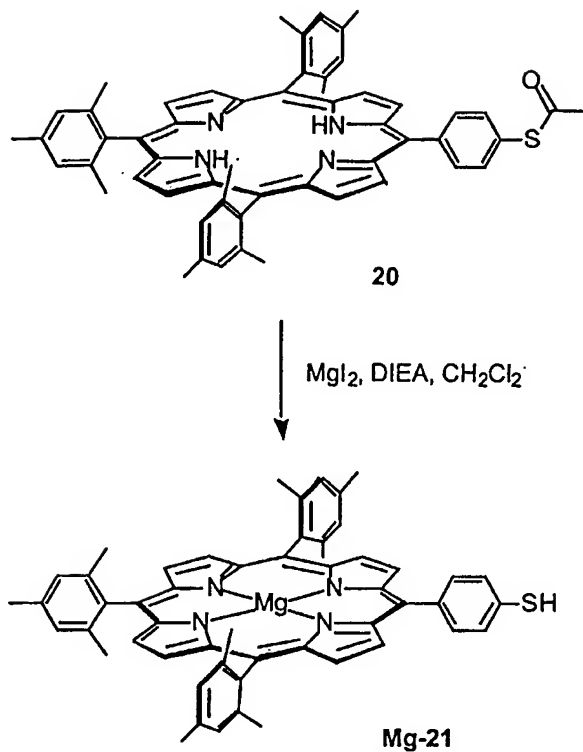


1. NaOMe, MeOH, CH₂Cl₂
2. AcCl or HCl

**Fig. 17**

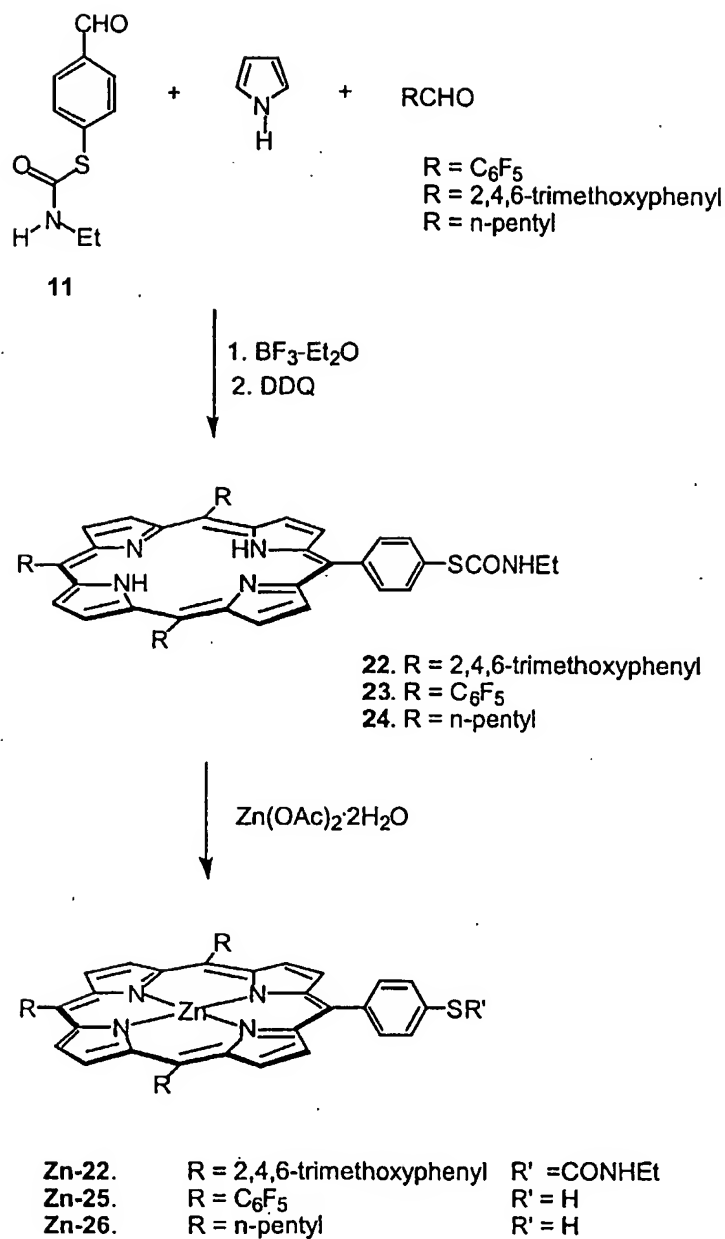
10/019377

Scheme 5.

**Fig. 18**

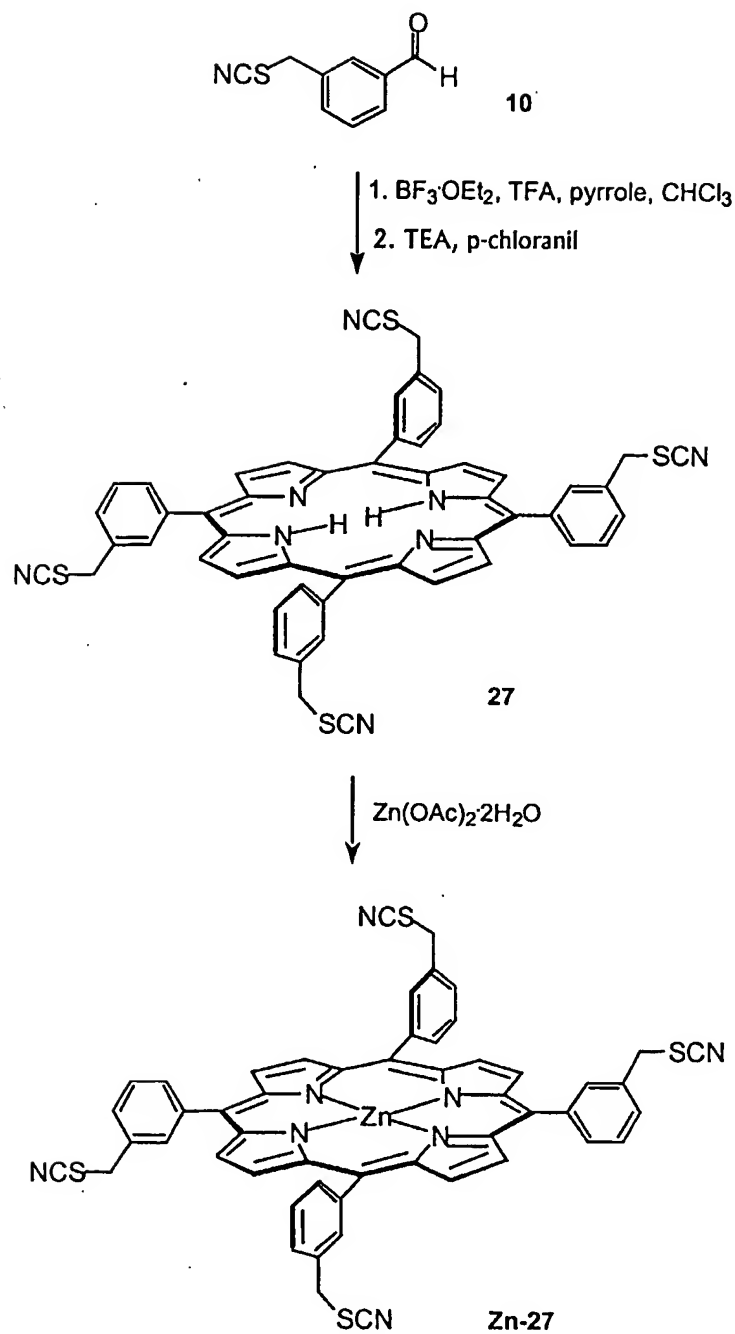
10/019377

Scheme 6.

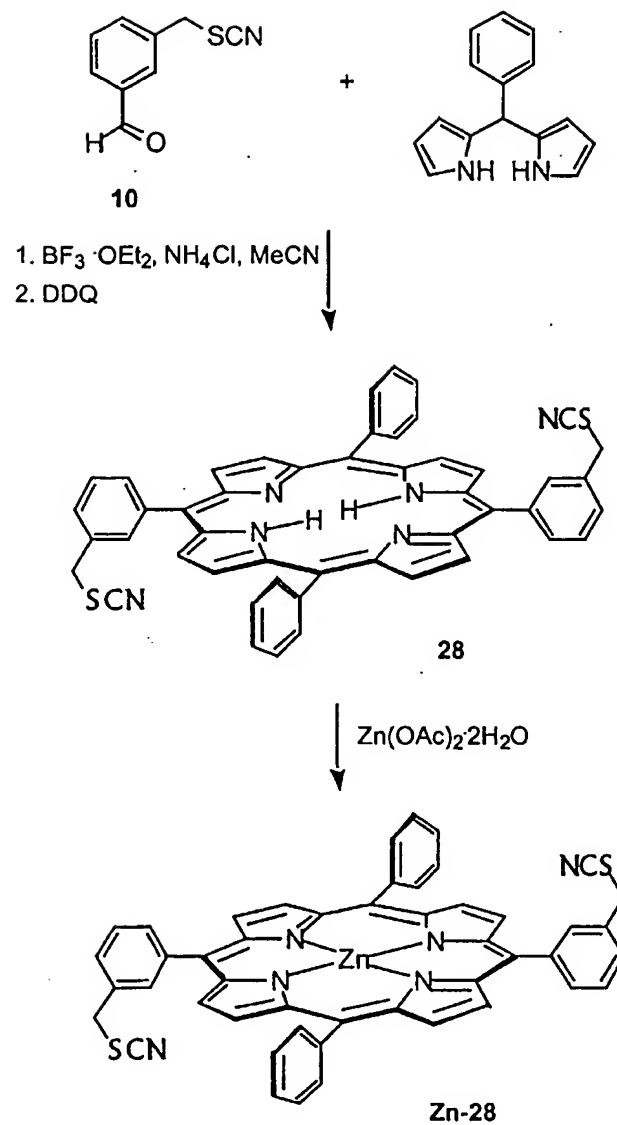
**Fig. 19**

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Scheme 7.

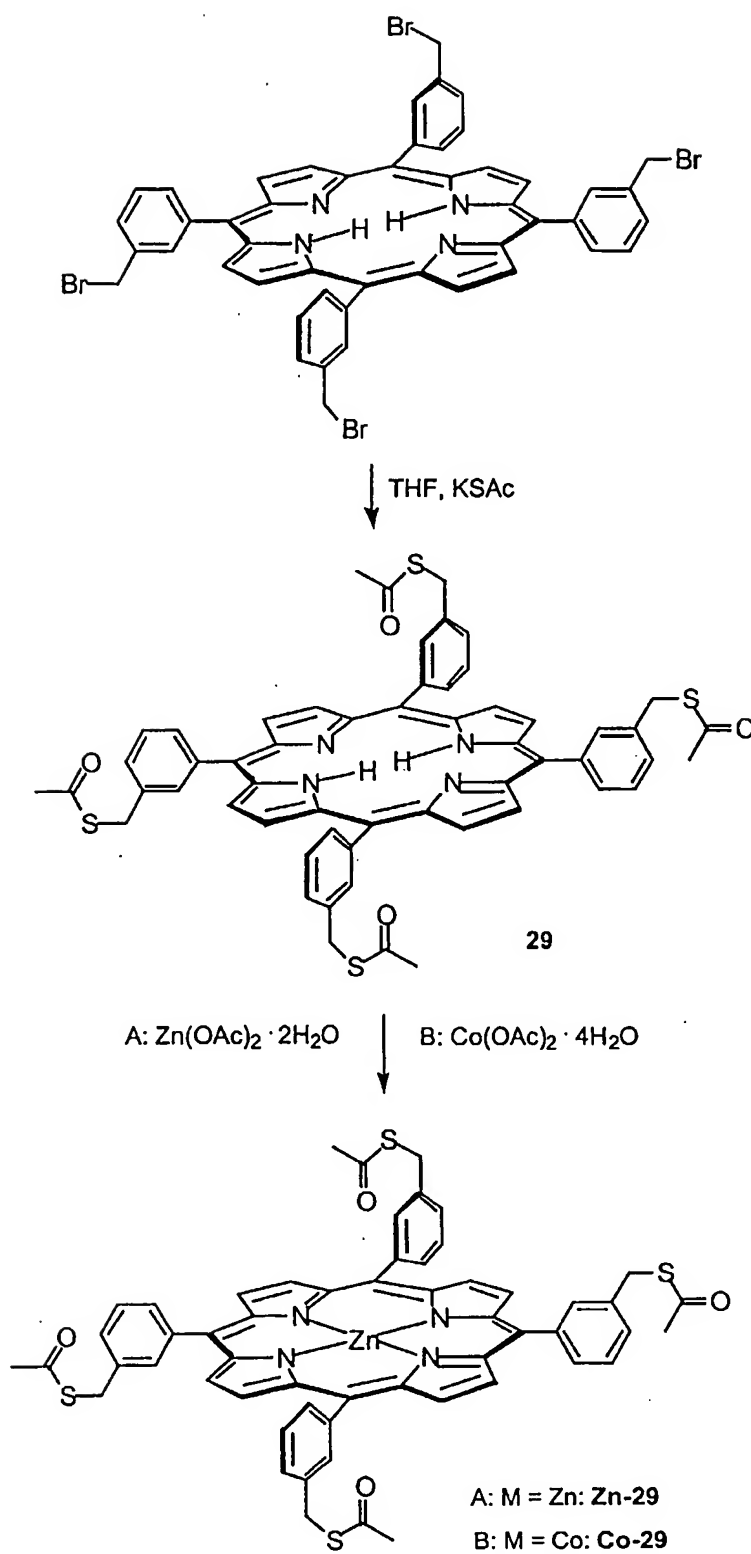
**Fig. 20**

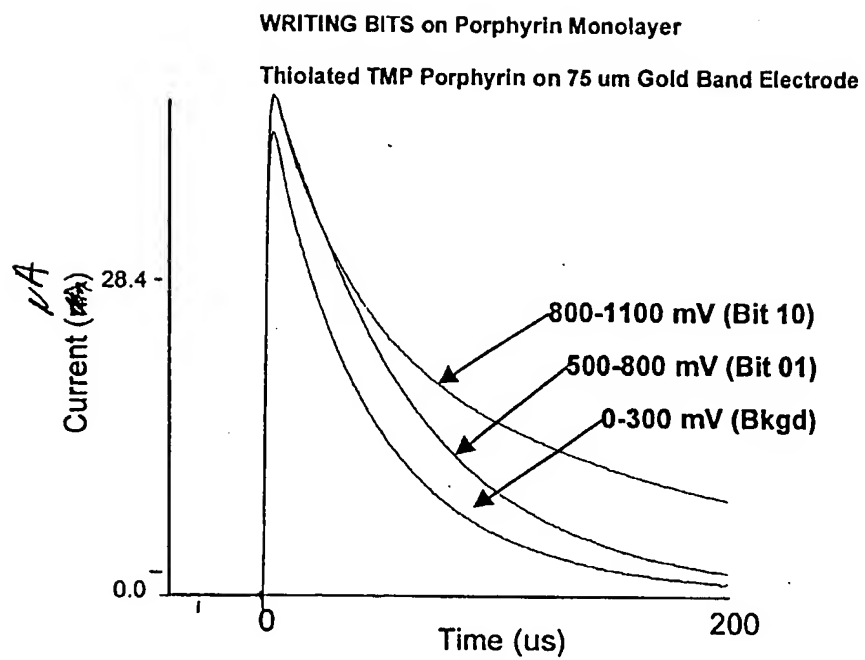
Scheme 8.

**Fig. 21**

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Scheme 9.

**Fig. 22**

**Fig. 23**

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Background-Subtracted "READ" Current

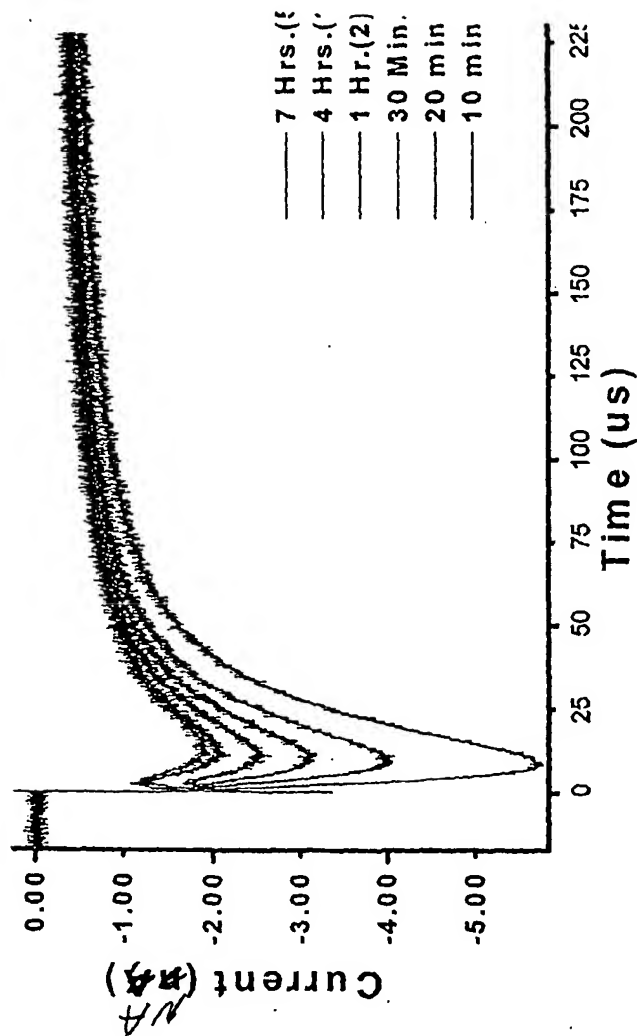
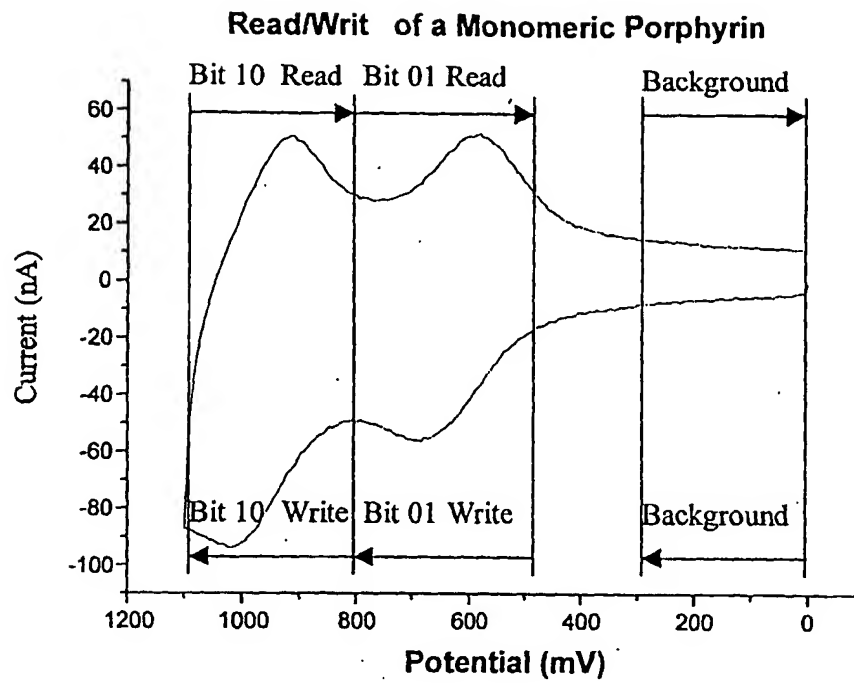
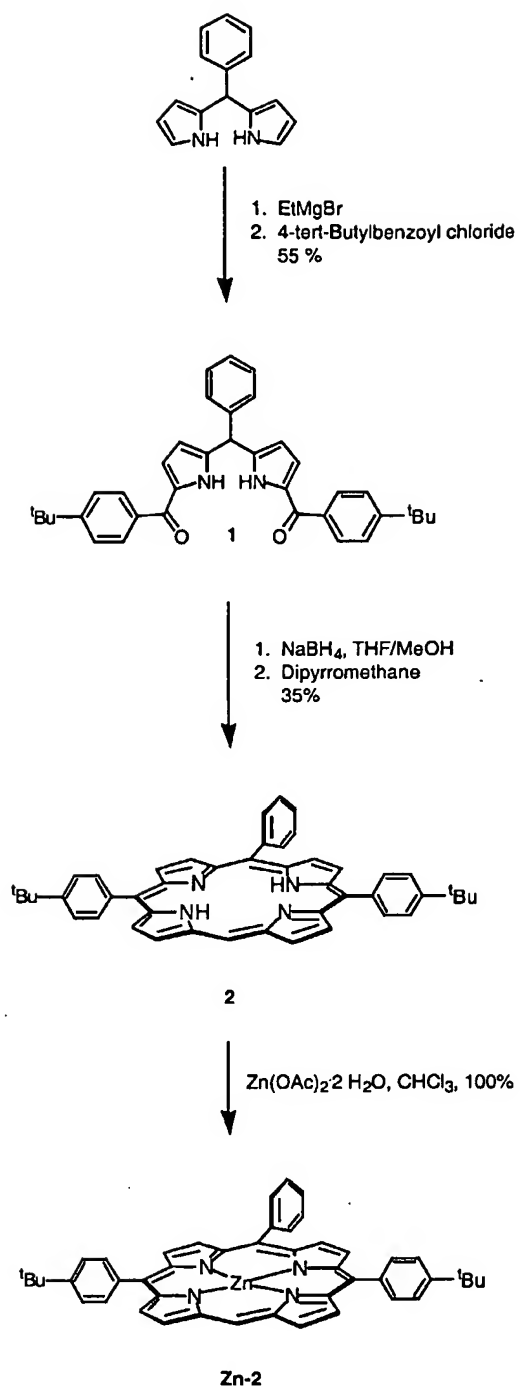


Fig. 24

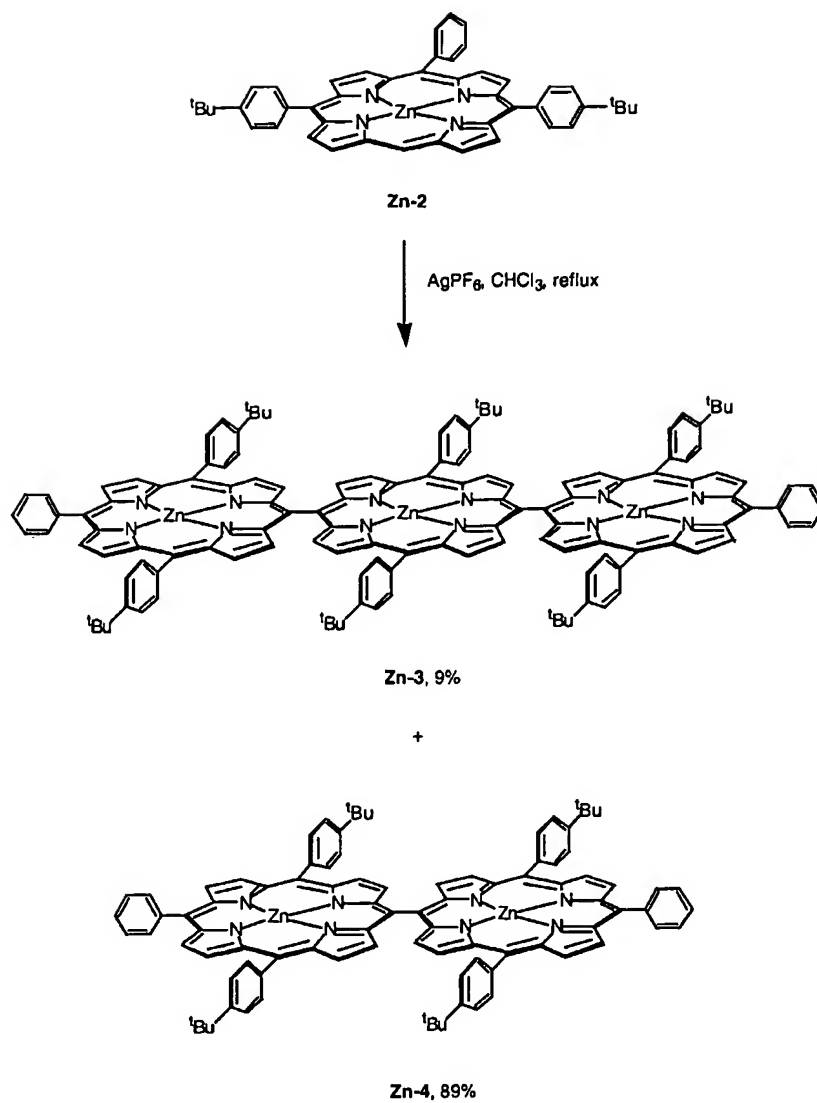
**Fig. 25**

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Scheme 1

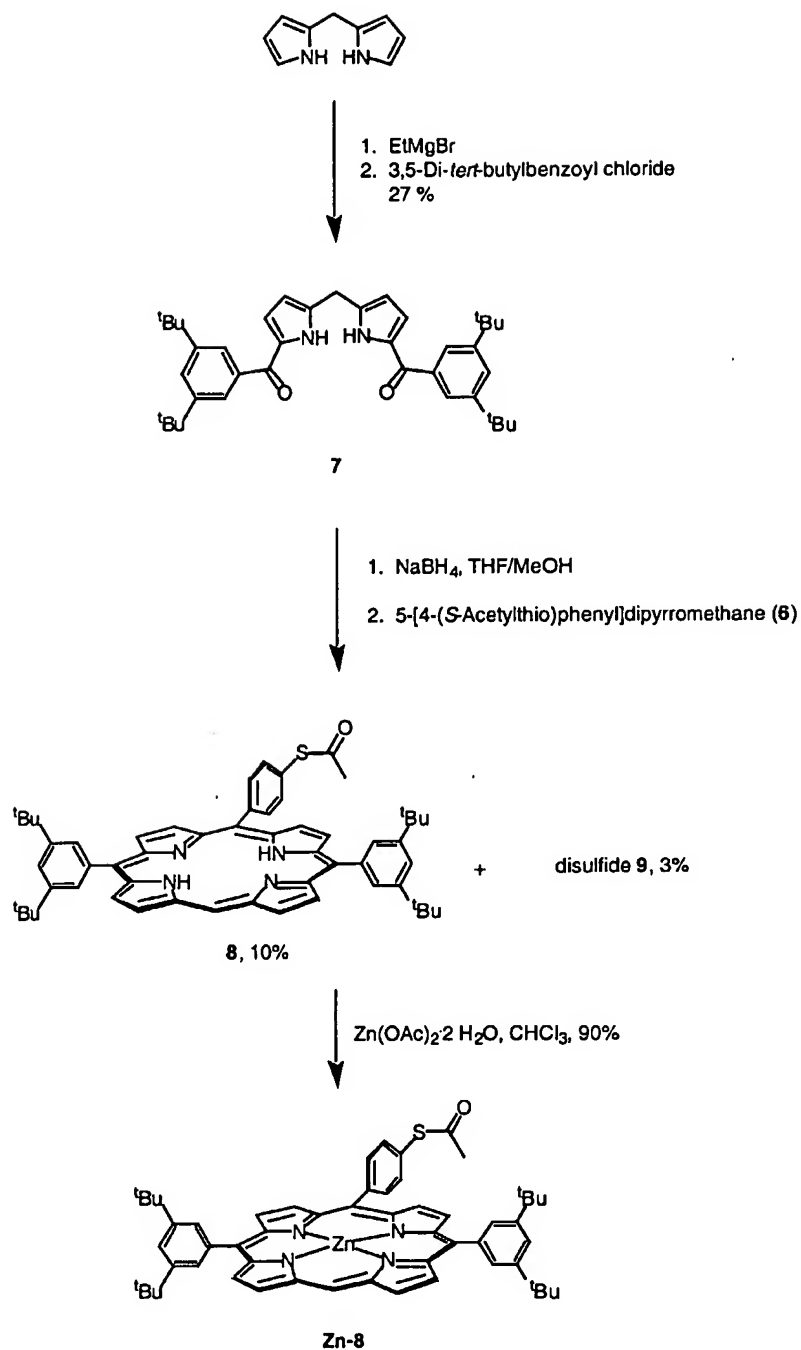
Fig. 26



Scheme 2

Fig. 27

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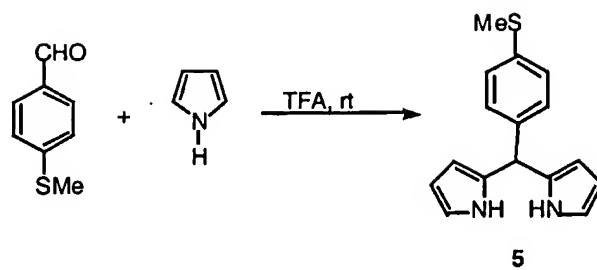


Scheme 3

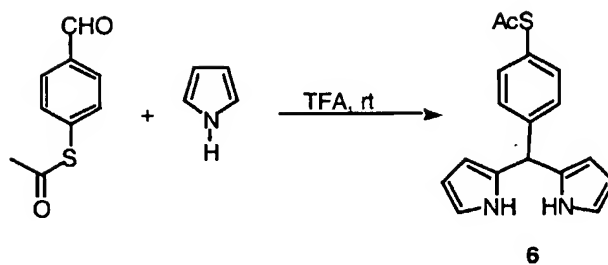
Fig. 28

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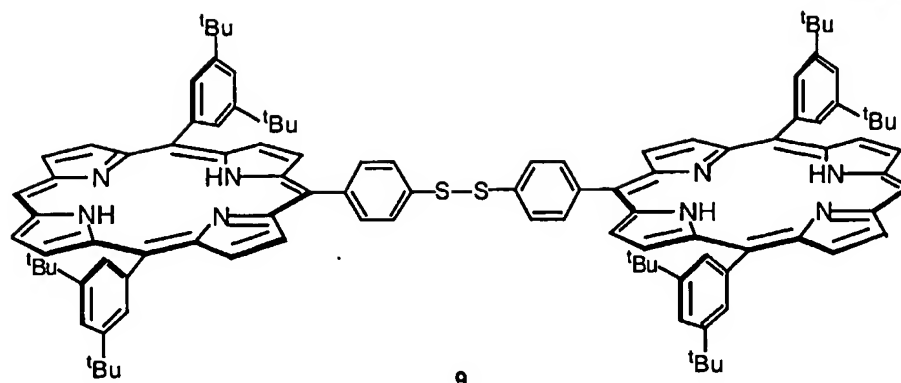
Equation 1

**Fig. 29**

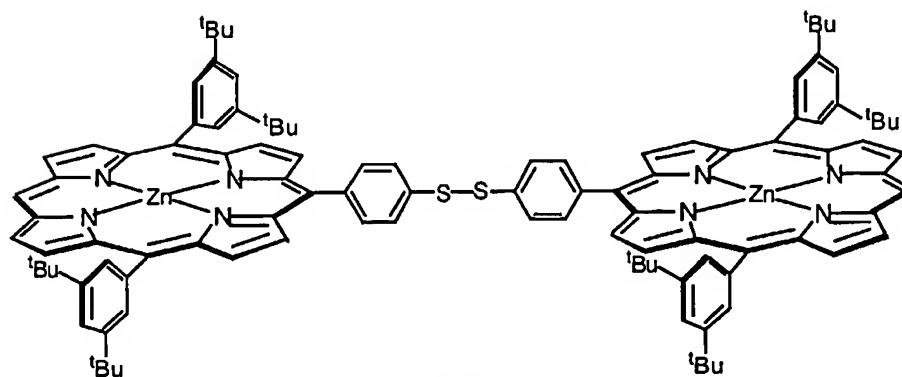
Equation 2

**Fig. 30**

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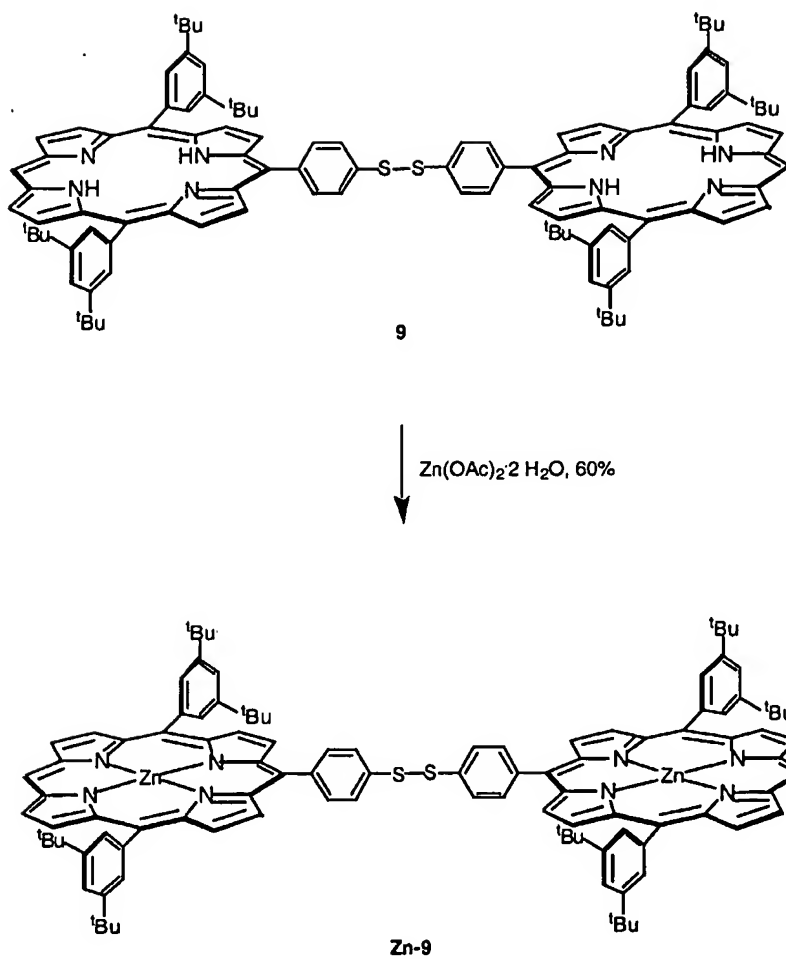
9

 $\text{Zn(OAc)}_2 \cdot 2 \text{H}_2\text{O}$, 60%

Zn-9

Scheme 4

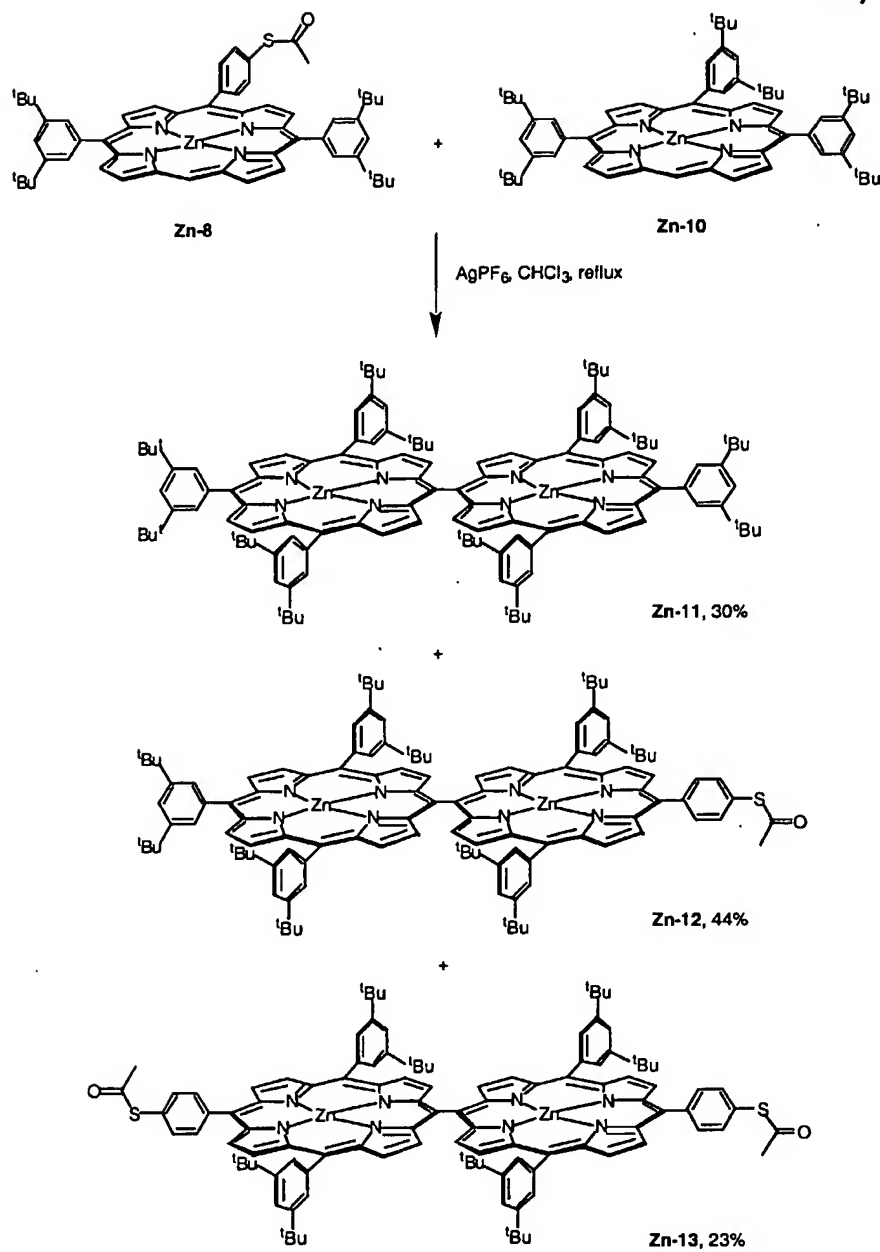
Fig. 31



Scheme 5

Fig. 32

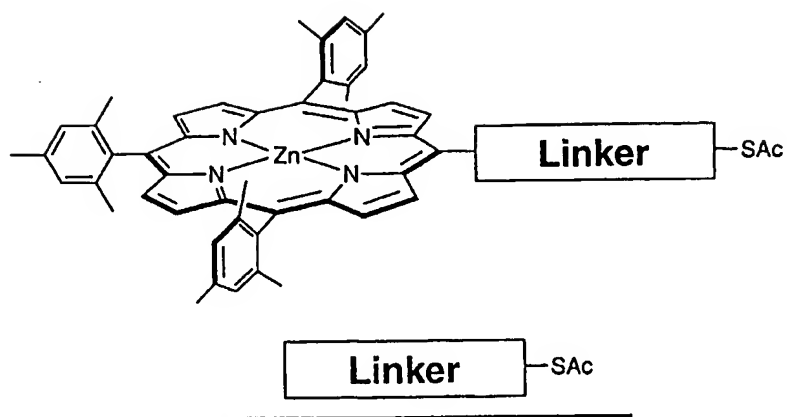
10/019377



Scheme 6

Fig. 33

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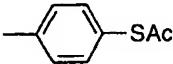
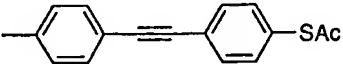
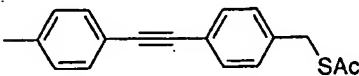
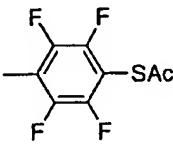
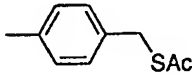
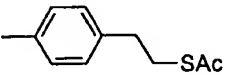
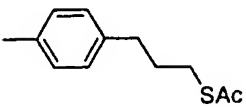
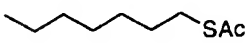
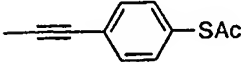
- A  Gryko *et al.* (1999)
J. Org. Chem., 64: 8635-8647.
- B  Zn-19
- C  Zn-20
- D  Zn-21
- E  Zn-22
- F  Zn-23
- G  Zn-24
- H  Zn-25
- I  Zn-26

Fig. 34

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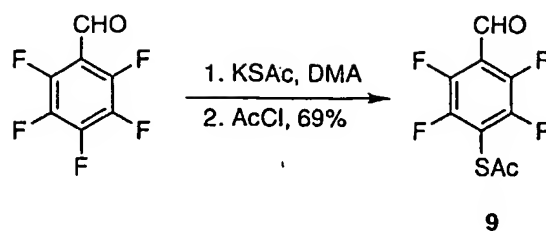


Fig. 35

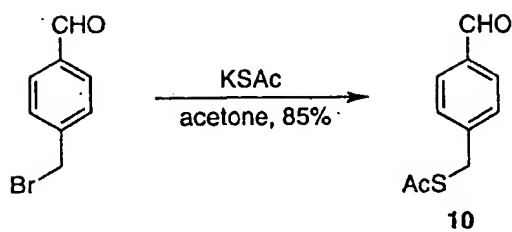
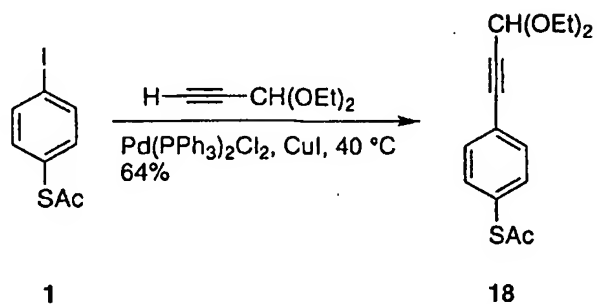
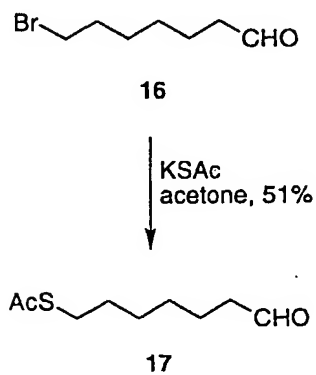


Fig. 36



Fig. 37

*Fig. 38**Fig. 39*

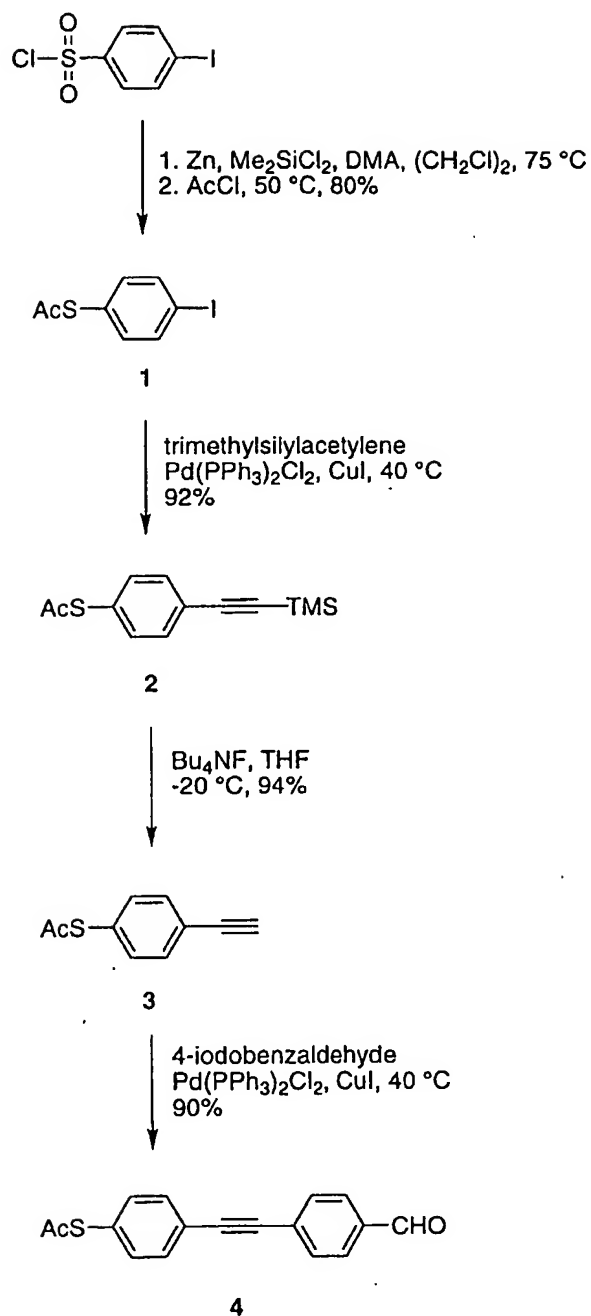


Fig. 40

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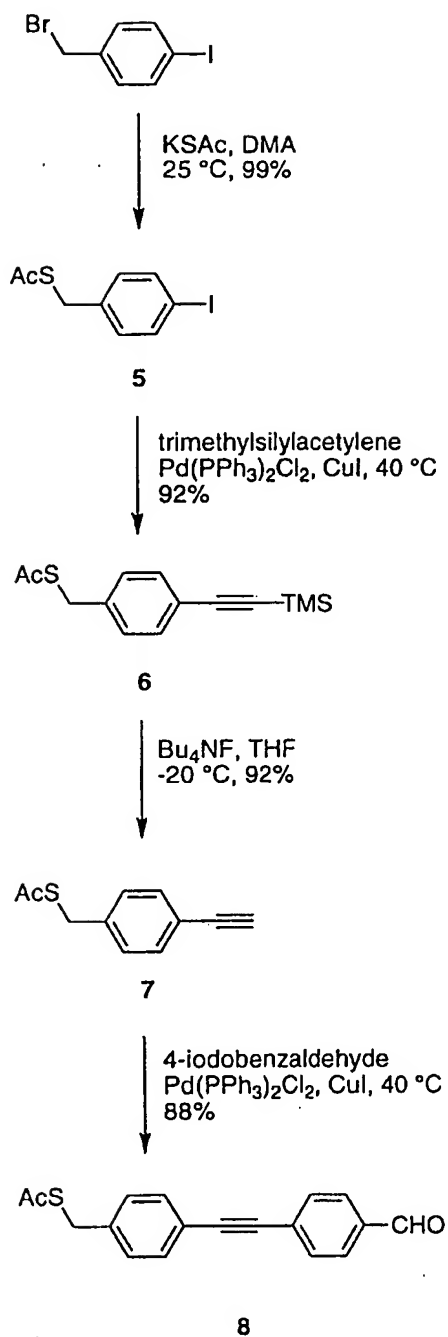


Fig. 41

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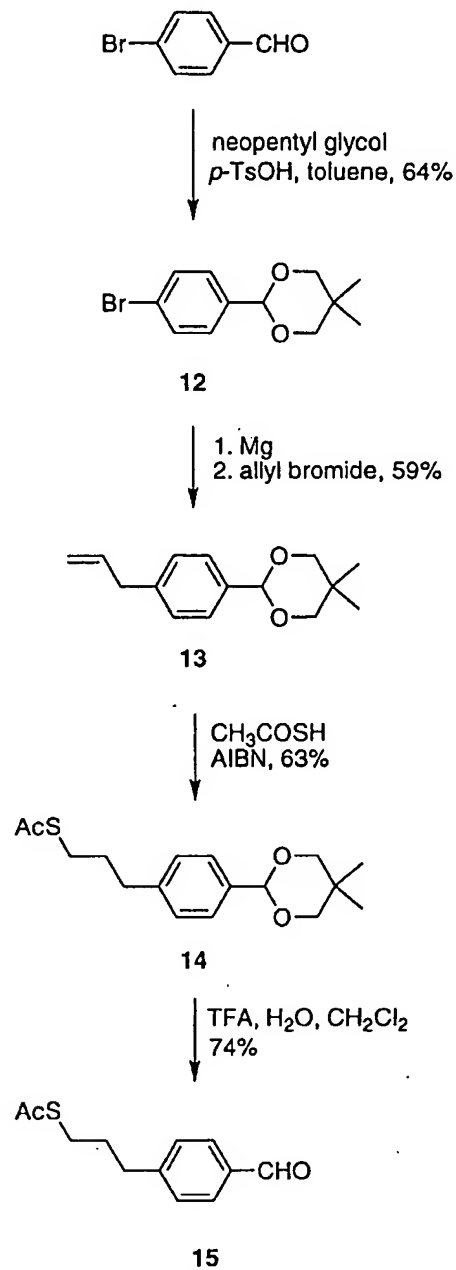
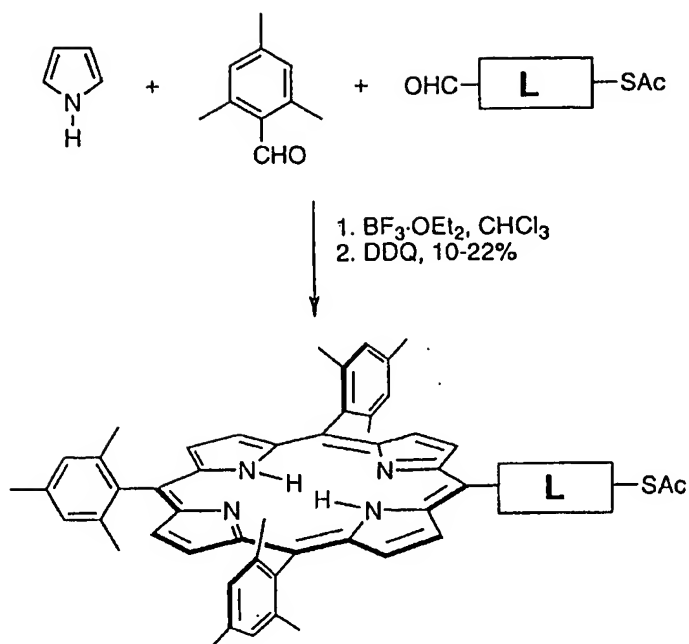


Fig. 42

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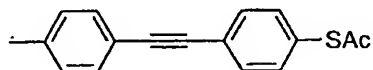


Aldehydes

Porphyrins

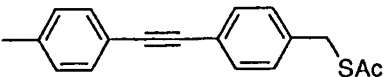
4

19. L =



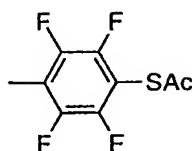
8

20. L =



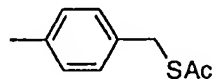
9

21. L =



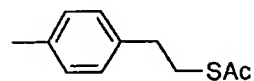
10

22. L =



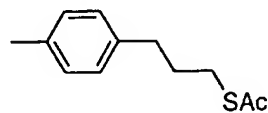
11

23. L =



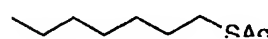
15

24. L =



17

25. L =



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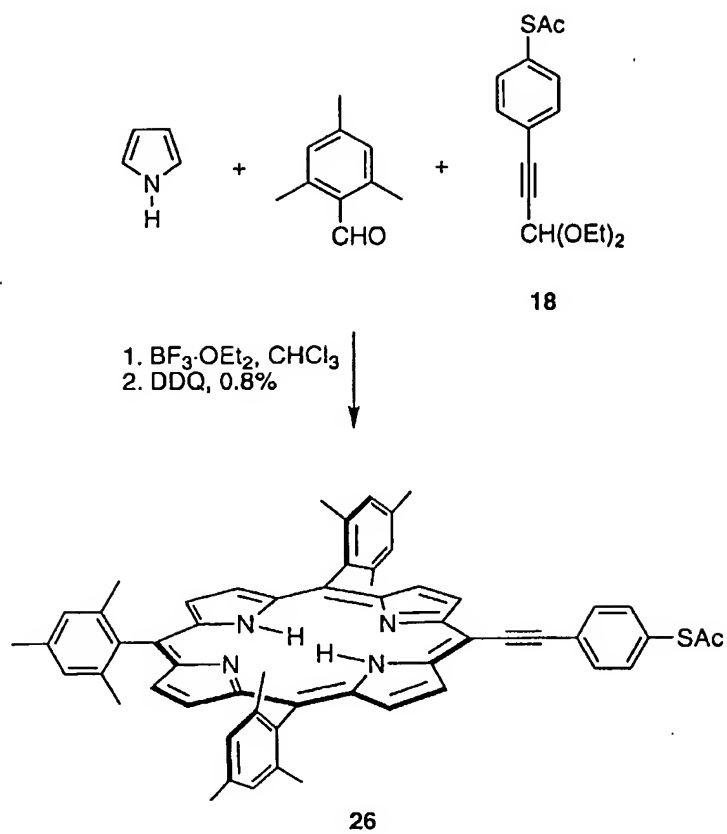


Fig. 44

10/019377

Equation 1

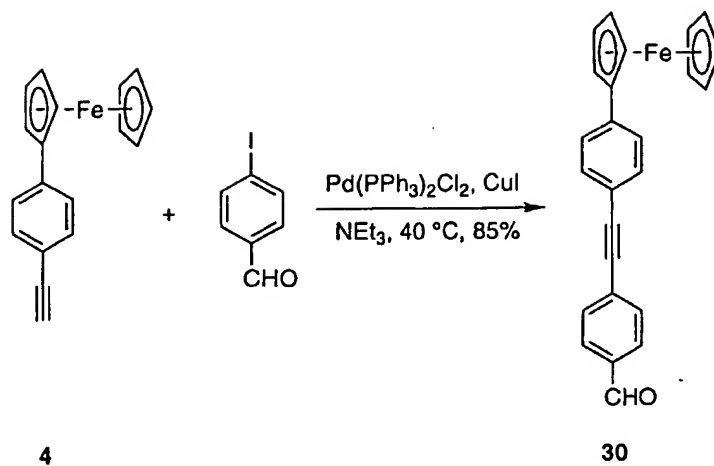


Fig. 45

10/019377

Equation 2

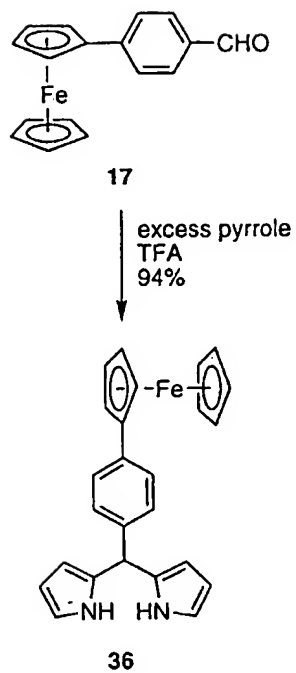


Fig. 46

10/019377

Equation 3

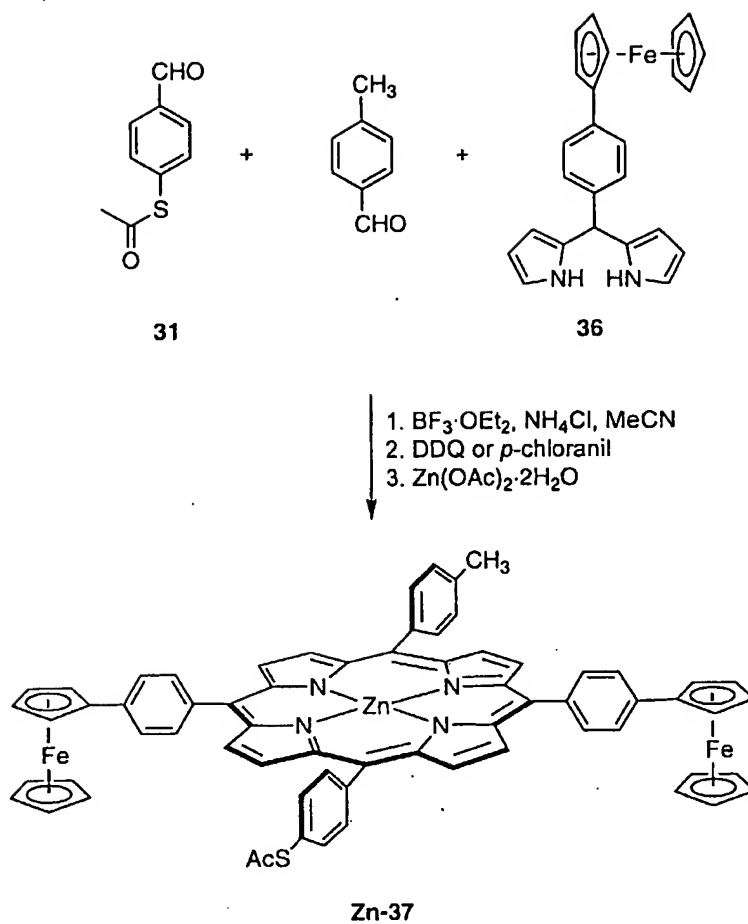


Fig. 47

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Scheme 1

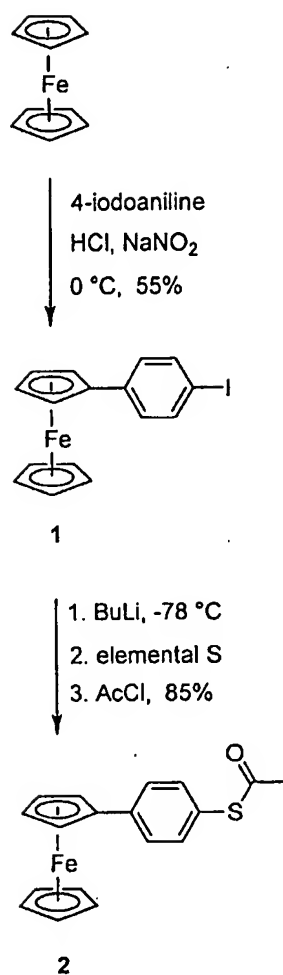


Fig. 48

Scheme 2

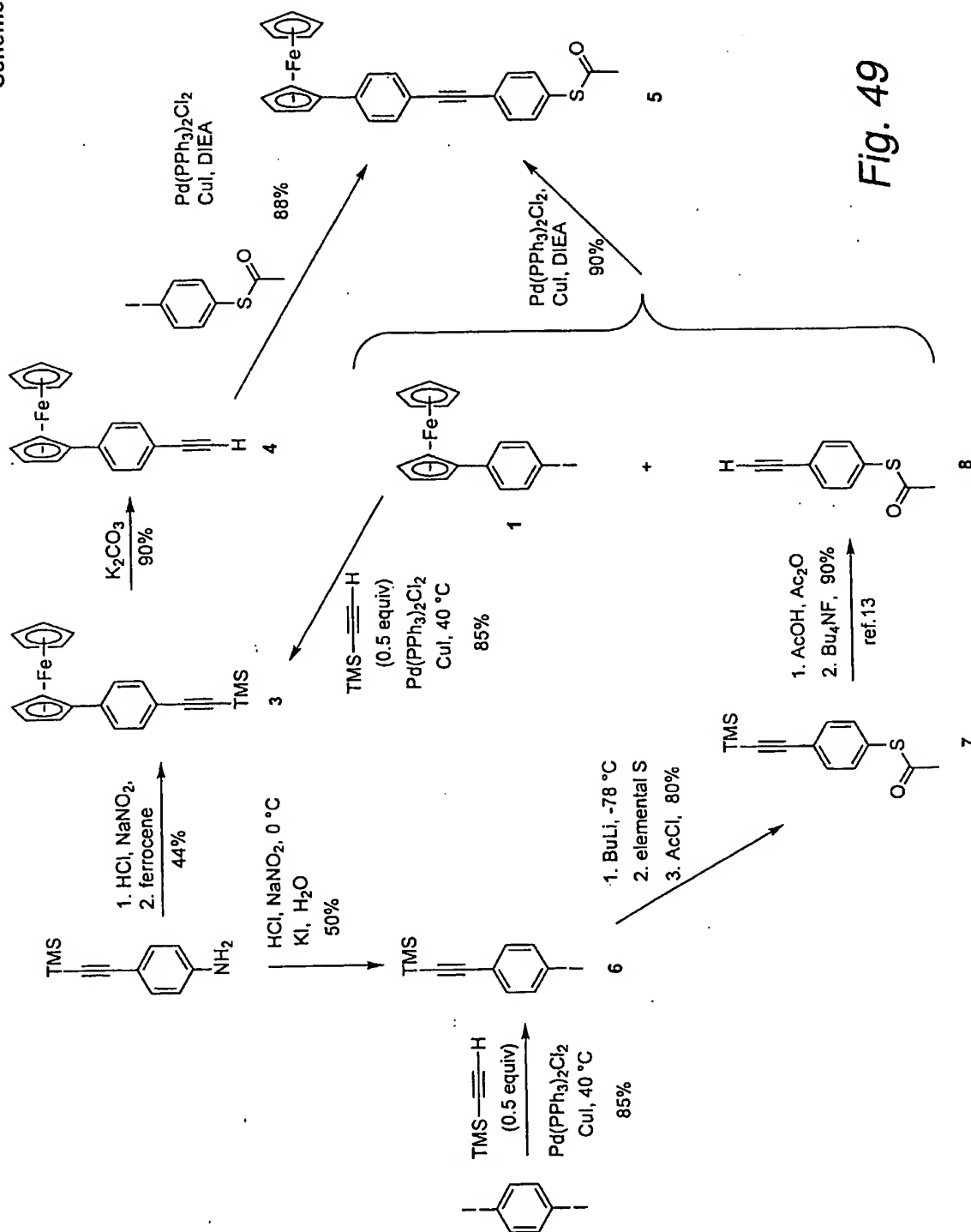


Fig. 49

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Scheme 3

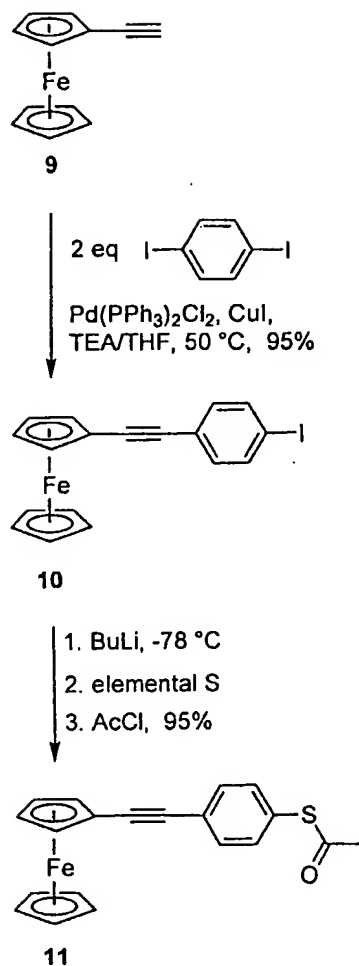


Fig. 50

10/019377

Scheme 4

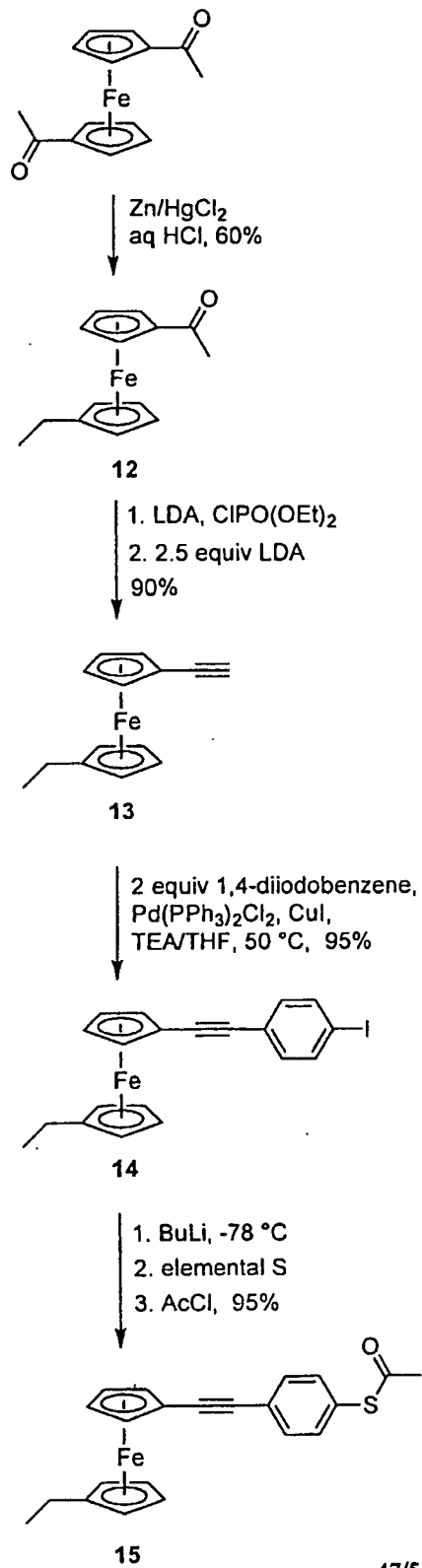


Fig. 51

Scheme 5

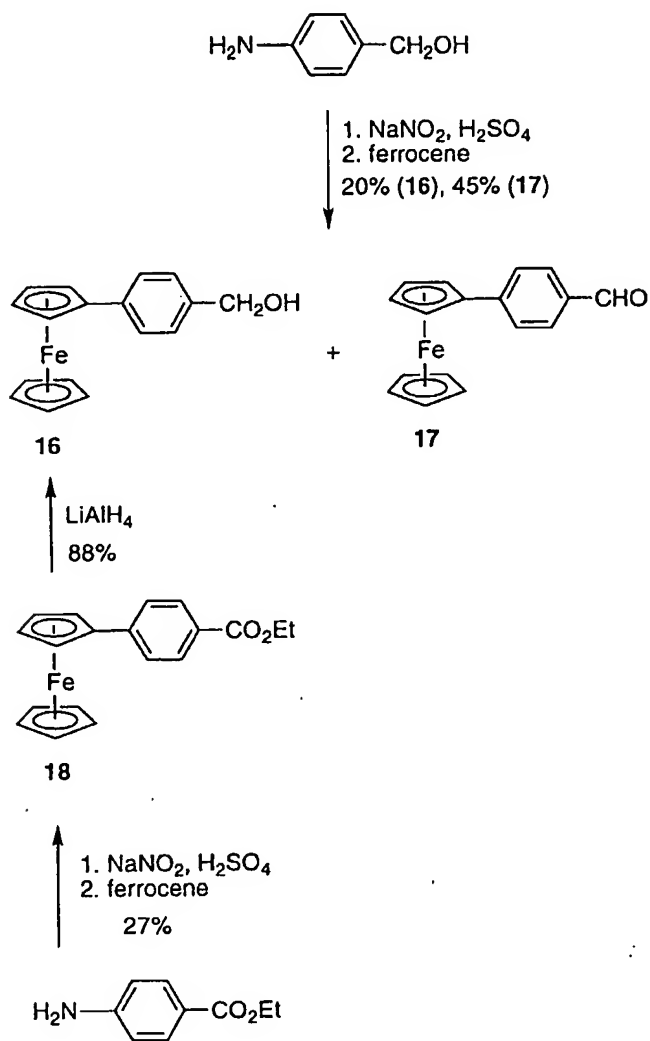


Fig. 52

Scheme 6

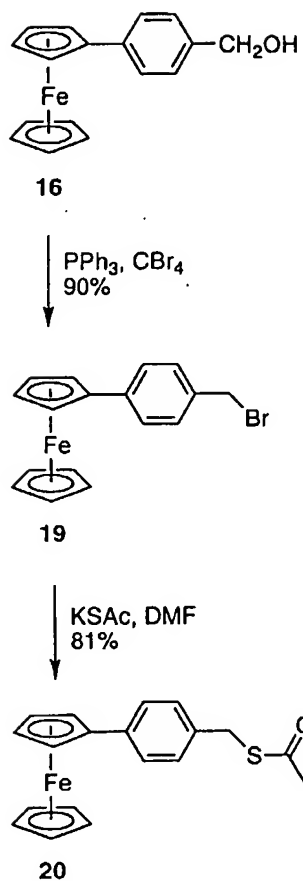


Fig. 53

Scheme 7

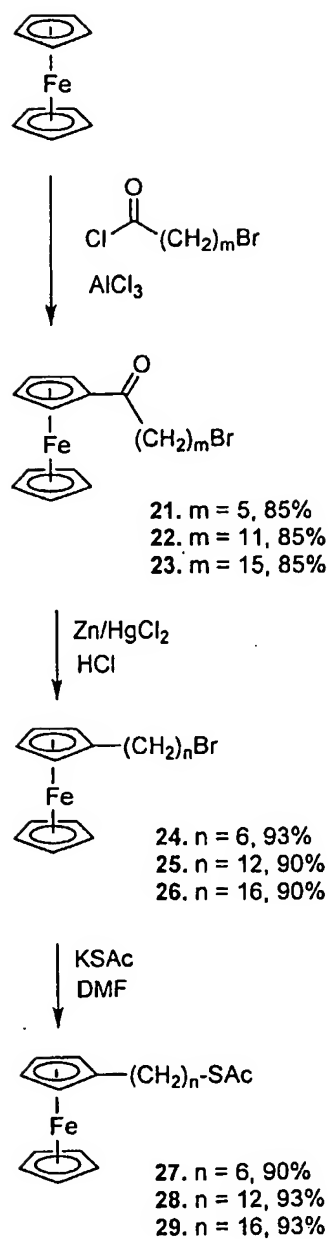


Fig. 54

Scheme 8

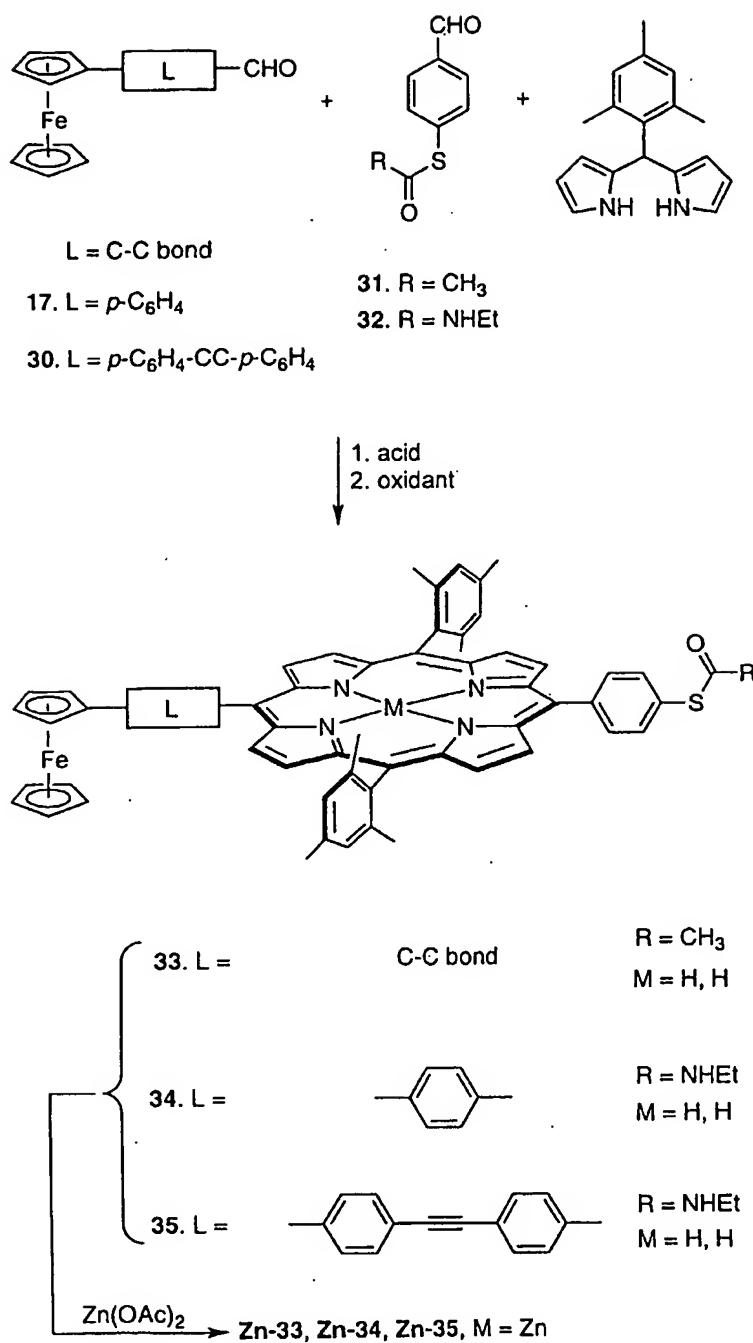


Fig. 55